

State of Louisiana
Department of Transportation and Development
Materials and Testing Section Qualification Procedure
for
QUALIFIED PRODUCTS LIST NO. 2
AGGREGATE SOURCES

MATERIAL SPECIFICATION REFERENCE:

Louisiana Standard Specifications for Roads and Bridges, 2000 Edition (Section 1003); DOTD Supplemental Specifications; DOTD Special Provisions; and DOTD Maintenance Specifications.

PRELIMINARY REQUIREMENTS:

Qualified Product Evaluation Form

A completed "*Preliminary Information for Aggregate Source Approval*" form shall be submitted to the DOTD Materials and Testing Section Coordinator with all aggregate samples intended for the Qualified Products List. The information provided shall show a complete description of the aggregate and its intended use, as well as the source location and the distributor, if applicable. Source location is intended to identify the point of origin of the material to be source approved such as the quarry, pit, or slag-producing mill.

In addition to the above form, a detailed map showing the geographical location of the aggregate quarry or pit, as well as limits of particular deposits within the quarry or pit, shall be provided to the Coordinator.

Product Data Sheets

For synthetic aggregates, include a description of the process producing the aggregate, indicating any special precautions regarding handling and testing the aggregate. Material safety data sheets (M.S.D.S.) must be included with the samples when shipped.

Certification and/or Test Reports

Include any test results obtained by private and/or other state agencies. The submittal should also include a detailed description of the quality control program for the source showing sampling and testing frequencies, test procedures etc. that is utilized at the quarry. In the case of any aggregate that may be environmentally questionable, clearance for the intended use must be obtained through the Department of Environmental Quality prior to source approval.

Sample (to be furnished at no cost to the Department)

Samples of aggregate for source approval shall be taken from the finished product in accordance with AASHTO Designation T-2. For coarse aggregate, a sample weighing a minimum 200 lb. will be required for the laboratory evaluation. For fine aggregate a 100 lb. sample will be required. Samples should be graded to approximate the gradation specification for the intended use. Samples of coarse aggregate should have sufficient 12.5 mm (1/2") and 9.5 mm (3/8") material in the sample to ensure enough material to perform the sulfate soundness and abrasion tests. Generally, the Grade A requirements of subsection 1003.02 will provide sufficient coarse material to fulfill this requirement.

Generally, in-state sources will be sampled by DOTD personnel and out of state sources are sampled by a representative of the source. Samples from out of state sources shall be taken from each identifiable location at the source such as each ledge in a quarry that is intended to be approved. Samples submitted for QPL No. 2 evaluation must be delivered to the Materials and Testing Section, to the attention of the Coordinator at the address shown below.

TEST REQUIREMENTS:

Laboratory Testing

Laboratory testing of samples will be conducted in accordance with Section 1003 of the Louisiana Standard Specifications for Roads and Bridges.

Field Evaluation

At the option of the Materials Engineer Administrator, an in-place evaluation of the material for the intended application (i.e. base course, surface course, etc.) may be required upon completion of the laboratory testing. The material will be evaluated for specification compliance or to establish design criteria for its intended use. In addition, sources may require a geologic evaluation by DOTD personnel.

Evaluation Time

Laboratory Testing - approximately eight weeks

Field Evaluation - approximately one year

GENERAL:

All aggregates must be environmentally acceptable for its intended use. Part A of the Qualified Products List (QPL) No. 2 contains sources of naturally occurring siliceous sands and chert gravels. Part B lists other naturally occurring stones, slags, and lightweight aggregate (expanded clay and shale) that have been approved for specific uses. All gravels and stones shall conform to soundness and abrasion requirements of Subsection 1003.01 in order to be listed in QPL 2.

Other sources of aggregate that have been approved for specific uses through field and/or laboratory evaluations that do not lend themselves for listing in QPL 2 due to either its intended use or variability of the source are listed in the Non-QPL List of approved sources. Of these materials, source approval for recycled portland cement concrete shall be in accordance with DOTD Designation S 801 "Source Approval, Sampling and Testing Program for Recycled Portland Cement Concrete".

Laboratory testing will begin after compliance with the preliminary requirements. Only operational quarries or pits will be evaluated for source approval. Testing/evaluation of undeveloped locations will not be considered.

After completion of testing, the source and the submitter will be notified of the results, and whether a field evaluation will be required. Upon completion of the total evaluation, the source and the submitter will be advised whether or not the source will be added to QPL 2.

Once a source has been approved, it shall be the source's responsibility to notify the Coordinator in writing of any change of ownership, name, address, telephone number, operations, material properties, etc. A verification sample will be required in case of change in ownership, operations, or material properties. Re-location of operations will require a re-evaluation of the source.

PROJECT SAMPLING REQUIREMENTS:

Source approval, as the name implies, is an approval of the source only. Material delivered to a project from an approved source will be sampled in accordance with the Department's applicable sampling requirements for compliance to specifications. A re-evaluation of source approval will be performed periodically from project samples or on a re-sample of the source.

DISQUALIFICATION:

Any source may be disqualified and removed from the Qualified Products List once it is established by the Materials Section that the material being provided no longer represents the preliminary sample. Cause for disqualification may include (but is not limited to) the following:

1. Significant change in physical properties of aggregates.
2. Continued failure to meet specification standards.
3. Poor construction history.
4. Failure to notify the Coordinator of plant re-locations or other significant changes in plant operations.
5. Failure to respond to questionnaires regarding the status of approved sources.

RE-QUALIFICATION:

A source which has been disqualified and removed from the Qualified Products List will be considered for reevaluation only after submission of a formal request along with acceptable evidence that the problems causing the disqualification have been resolved. The source may be re-qualified in accordance with this procedure.

DOTD MATERIALS AND TESTING SECTION COORDINATOR, QPL 2

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